Figure 1A

1	CCACTGTGCTGGGAATTCGGCACGAGGCGAACGGACGTTTAAAGTGAGAAAAGAAACCGG	60
61	TAAATCAGAGATCCCAAGCAAGCGCGTGCGTGCATGATAGCGAAGAAAAAAAGCTATCCG	120
121	$\tt TTTCAGTTAACTACTACCAAGATTGAATTTCGCCATCGGGCAAATTACTAAAAATACAT$	180
181	${\tt AAGTGCAACTCGTCCACTGTGTTGTTTTTTTTTTTTTTT$	240
241	${\tt TTTATCGCAAACAAGAACTGATAAAACTAGAAAATATCTTGAGAAACTTGTTTTCGCGCT}$	300
301	$\tt TTTCTTTTGCTAATTGCCGATCGCGGAAGAGAAAAACAAGCAGTAGACAAAACAAGTGTG$	360
361	$\tt GTAATACAATCTGAAAAGGGCACCATCAGCAGCCCGAGGGGTTTATCTATATAGATGTCG$	420
421	${\tt CAGCTTATCATCTCATGCTGTTGTGAGGTTGTTCTGTGTGCTCGTGTAGTATCTTAAAT}$	480
481	ACATAGAGTGTTCATATAAAGTGCGACAAAGCTCGATTGGAAACAGCTGTCGAGTGCC	540
541	$\tt CTTGAGTGGGTGGGCAAGATCGTCATCATCATCGTCGTCATTATCAACAGAATCAGC$	600
601 1	ATCAGCATCTGGAGGCCCCGGATGCTCTAAGATCCCCAGTGTTCATCAATTATGACTGCC $\underline{\text{M} \text{T} \underline{\text{A}}}$	660 3
661 4	GAGACCCTCAAGCCGTTTATAACGCCAACGAGTGCCAACGATGATGGTTTTTCCGGCCAAA E T L K P F I T P T S A N D D G F P A K	720 23
721 24	GCGACCAGCACGGCACCGCCAGCGCACCCGCCAGCTGATCCCCCTGGTTTTGGGG	780 43
781 44	TTCATCGGTCTGGGGCTGGTCGTTGCCATTCTCGCACTAACGATCTGGCAGACAACGCGT F I G L V V 1 A I L A L T I W Q T T R	840 63
841 64	GTATCGCATCTGGACAAGGAGCTGAAGAGCCTGAAGCGAGTCGTCGATAATCTCCAGCAG V S H L D K E L K S L K R V V D N L Q Q	900 83
901 84	CGTTTGGCATAAACTATCTGGACGAGTTCGACGAGTTCCAAAAGGAGTACGAGAATGCC R L G I N Y L D E F D E F Q K E Y E N A	960 103
961 104	CTCATCGACTATCCAAAAAAGGTGGATGGCCTCACGGATGAGGAGGACGACGACGATGGC L I D Y P K K V D G L T D E E D D D D G	1020

Figure 1B

1021	GATGGTCTGGATTCCATTGCGGACGACGACGACGACGTTAGCTATAGCTCTGTGGAT	1080
124	D G L D S I A D D E D D D V S Y S S V D	143
1081	C1.TTCTTTCC	
144		1140
7.44	DVGADYEDYTDMLNKLNNAH	163
1141	ACCGGCACCACGCCCACATCTGAGACCACTGCTGAGGGCGAGGGCGAGACGGACAGTGCA	1200
164	TGTTPTSETTAEGEGETDSA	183
		200
1201 184		1260
104	SSASNDDNVFDDFTSSDALK	203
1261	AAGAAGCAGGAGAAAATCTCGCTCGATTGCCGATGTACGCAATGAGGAGCAGAATATT	1320
204	K K Q E R K S R S I A D V R N E E O N I	223
		223
1321	CAAGGAAATCACACAGAGCTTCAGGAAAAGTCATCCAATGAGGCAGCTTCCAAAGAGAGC	1380
224	QGNHTELQEKSSNEAASKES	243
1381	CCTGCAGCACTTCACCTCCGTCGCAGAATGCATTCCCGCCATCGCCACCTCGTAGTCCGC	1440
244	PAALHLRRRMHSRHRLVVR	263
		200
1441 264	AAAGCCAGATCCGAGGACTCGAGGCCAGCAGCCCATTTCCACTTGAGCAGCAGGCGGCGT	1500
204	KARSEDSRPAAHFHLSSRRR	283
1501	CACCAAGAAAGTATGGGCTACCATGGAGATATGTACATAGAAAATGATAGGGAGAGATGC	1560
284	HQESMGYHGDMYIENDRERC	303
1561 304	TCTTATCAGGGACACTTTCAAACGCGCGATGGCGTATTGACGGTGACCAATGCAGGCCTA	1620
304	SYQGHFQTRDGV	323
1621	TATTACGTATACGCCCAGATATGGGGCTACAACTCGCACGACCAGAACGGATTTATCGTC	1680
324	G Y N S H D Q N G F I V	343
	,	545
1681	TTTCAAGGAGACACTCCATTCCTGCAGTGCTTGAACACGGTGCCCACCAACATGCCACAT	1740
344	F Q G D T P F L Q C L N T V P T N M P H	363
1741	AAGGTGCACACCTGCCACACGAGTGGTCTGATCCACCTGGAACGAAACGAGAGGATCCAT	1000
364	K V H T C H T S G L I H L E R N E R I H	1800 383
		303
1801	CTGAAGGACATTCACAACGATCGCAATGCAGTTCTGCGGGAGGGA	1860
384	LKDIHNDRNAVLREGNNRSY	403

Figure 1C

1861 404	TTTGGCATCTTCAAGGTGTAAATTGGAGAGATTATCCCCGGTCAGAAGATGGAATACCAG F G I F K V	1920 409
1921	${\tt TTTAAGCTTTTGTCCCCGCGACTGCTCGTGAATGCGATTCATCGCCAGCGTGAATCCATT}$	1980
1981	${\tt AGTTCGTAGTACCTAGTCTTAGTCACTCCAAACCTAATCTCAATCGGAATCGTGCATACT}$	2040
2041	GCATTAGTCAGAAGACGGAGGAAAATCATATTTATTTTGTATATACTCGTTCGACTCTAA	2100
2101	AAAGTGAATAAAAATATGTAGCTATTAAAAAAAAAAAAA	2160
2161	CTCGAG 2166	

Figure 2A

1	ΑT	GAC	CTG	CCG.																TTTT:	60
1	M	T	A	Ε	T	L	K	P	F	_I	Т	P	Т	S	A	N	D	D	G	F	20
61																				CCTG	120
21	<u>P</u>	A	K	A	Т	S	Т	A	Т	A	Q	R	R	Т	R	Q	L	I	P	L	40
121 41																				GCAG	180
41			9	r		G	بد	G	_ь	·		_A	Τ	ь	A	ь	Т	Ι	W	Q	60
181	Ac	AAC	GCC	STGʻ	PAT	CGCZ	ATC:	rgg:	ACA?	AGGZ	AGC1	rga z	AGAC	3001	CAZ	AGCC	20/C1	"୯୯୩	rcar	TAAT	240
61	T				S		L		K						K			v			80
241	CT	CCA	\GC2	AGC	STT:	rggo	GCA!	· [AA	ACTA	ATCI	· rgg/	ACGA	AGT	rcg <i>i</i>	CGA	GTT	CCZ	VAAA	.GGA	GTAC	300
81					L		I		Y											Y	100
301	GA	GAA	TG	ccc.	rca:	rcg.	CTA	ATC	CAA	AAA	AGG1	rgg?	TGO	CCI	CAC	GGZ	TGZ	GGA	GGA	CGAC	360
101	E	N	Α	L	I	D	Y	P	K	K	V	D	G	L	T	D	E	E	D	D	120
361							GG/	ATT	CAT	TGO	:GGA	ACG?	kCG/	LGGA	CGA	.CG₽	CGI	TAG	CTA	TAGC	420
121	D	D	G	D	G	L	D	S	I	A	D	D	Ε	D	D	D	V	S	Y	S	140
421	TC	TGT	'GGI																	CAAC	480
141	s	V	D	D	V	G	Α	D	Y	Е	D	Y	T	D	M	L	N	K	L	N	160
481																				GACG	540
161	N	Α	Н	T	G	Т	Т	P	T	S	E	T	T	A	E	G	Е	G	E	T	180
541 181	GA D		TGC																	CAAT	600
101	D	S	A	S	S	A	S	N	D	D	N	V	F	D	D	F	T	s	Y	N	200
CO1	-						:														
601 201	A	H				.GCA			AAA K		TCG				CGA D			CAA N	TGA E	GGAG E	660 220
					•	*	_		10				_	^		٧	14	14	ш	ь	220
661	CA	ממכי	тат	'T'C' A	AGC	מ מ מ	mcz	CAC	a ca	COT	·	CC3	222		3 ma	~ n		000	220	TTCC	720
221	Q					N				L				S	S	N	E	A		S	240
721	AA	AGA	GAG	ААТ	CO2	ጥጥሶ	ccc	CCA	TCC	CCA	· ccm	ccm	л ст		ממי	200	mca	» mc	mem	TCTT	780
241			R		Н		R			Н				R		G	E	S		L	260
781	TC	AGC	CAG	ДТС	റദമ	CCA	СТС	CAC	ccc	7.CC		007	mmm		omm.	~ 1 ~		03.0	200	GCGT	840
261	S	A	R	s	E	D	S	R	P	A	A	H	F	H	L	S	S	R		R	280
841	CAC	CA	AGG	AAG	тат	GGG	CTA	CCA	TGG	AGA	ТАТ	GTA.	ጥልግ	AGG	ימממ	TC A	ΤΔ Δ-	0024	SAC:	AAAC	900
281	Н	Q	G	S	М				G					G G			N	E	R	N	300

Figure 2B

901	TC	TTA	ATCA	GGG	ACA	CTT	TCA	AAC	GCG	CGZ	TGC	CGT	CTT	GAC	GGT	'GAC	CAA	TAC	AGG	CCTA	960
301	S	Y	Q	G	Η	F	Q	Т	R	D	G	V							meria	(F) (1)	320
961	TA	TTA	CGT	ATA	CGC	CCA	GAT	ATO	CTA	CAA	CAF	ACTO	GCA	.CGP	CCA	GAA	.cgg	ATT	TAT	CGTC	1020
321	376		V		e À	Q	3	en co		N	N	S	Н	D	Q	N	G	F	Ι	V	340
1021	тт	TCA	AGG	AGA	CAC	TCC	ATT	CCI	GCA	GTG	CTI	GAA	CAC	GGT	'GCC	CAC	CAA	CAT	GCC	ACAT	1080
341	F	Q	G	D	т	P	F	L	Q	С	L	N	T	V	P	T	N	М	P	Н	360
1081	22	GGT	vsca	CAC	יריים	cca		CAC	maa	men	٠.	יררי	ССТ	VGG 7	A.C.C	הההי	cca	GAG	CAT	CCAT	1140
361	K	v	Н	T	C	Н	T	S	G	L	I	Н	L	E	R	N	E	R	I	Н	380
1141	CT	GAA	GGA	CAT	TCA	CAA	CGA	TCG	CAA	TGC	'AGT	יייכידי	GCG	GG2	GGG	AAA	CAA	ccs	AAG	CTAC	1200
381	L	K	D	Ι	Н	N	D	R	N	А	V	ь	R	Е	G	N	N	R	S	Y	400
1201			CAT				GTA	A	122												
401	F	G	I	F	K	V			406												

Figure 3A

1	GGCACGAGGCGAACGGACGTTTAAAGTGAGAAAAGAAACCGGTAAATCAGAGATCCCAAG	60
61	$. \\$ CAAGCGCGTGCGTGCATGATAGCGAAGAAAAAAGCTATCCGTTTCAGTTAACTACTTAC	120
121	CAAGATTGAATTTCGCCATCGGGCAAATTACTAAAAATACATAAGTGCAACTCGTCCACT	180
181	$\tt GTGTGTTGTTTTTTTTTTTTTTTTTTTTTTTTTTTTT$	240
241	${\tt TGATAAAACTAGAAAATATCTTGAGAAACTTGTTTTTGCGGCTTTTCTTTTGCTAATTGCC}$	300
301	GATCGCGGAAGAAAAAAAAACAAGCAGTAGACAAAACAAGTGTGGTAATACAATCTGAAAAG	360
361	GGCACCATCAGCAGCCCGAGGGGTTTATCTATATAGATGTCGCAGCTTATCATCTCATGC	420
421	$\tt TGTCTGTGAGGTTGTTCTGTGTGCTCGTGTAGTATCTTAAATACATAGAGTGTGTTCATA$	480
481	${\tt TAAAGTGCGACAAAGCTCGATTGGAAACAGCTGTCGAGTGCCCTTGAGTGGGTGG$	540
541	ATCGTCATCATCATCGTCGTCATTATCAACAGAATCAGCATCAGCATCTGGAGGCCC	600
601 1	CGGTTGCTCTAAGATCCCCAGTGTTCATCAATTATGACTGCCGAGACCCTCAAGCCGTTT	660 9
661 10	ATAACGCCAACGAGTGCCAACGATGATGGTTTTTCCGGCCAAAGCGACCACGCGCGACCCTTTTPPTTSSAANN DD DG FFAAKAATSSTAATT	720 29
721 30	GCCCAGCGACGCACCCGCCAGCTGATCCCCCTGGTTTTTGGGGTTCATCGGTCTTGGGGCTG A Q R R T R Q L I P L V L G F I G L G L	780 49
781 50	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	840 69
8 4 1 70	GAGCTGAAGGCCTGAAGCGAGTCGTCGATAATCTCCAGCAGCGTTTGGGCATAAACTAT E L K S L K R V V D N L Q Q R L G I N Y	900 89
901 90	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	960 109
961 110	AAGGTGGATGGCCTCACGGATGAGGAGGACGACGATGGCGATGGTCGGATTCCATT K V D G L T D E E D D D D G D G L D S I	1020 129

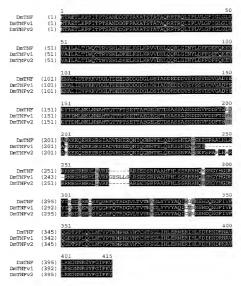
Figure 3B 1021 GCGGACGACGACGACGACGTTAGCTATAGCTCTGTGGATGATGTTGGCGCAGACTAC 1080

130	A D D E D D D V S Y S S V D D V G A D Y	149
1081 150	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1140 169
1141 170	TCTGAGACCACTGCTGAGGGCGAGGGCGAGACGGACAGTGCATCCTCAGCCTCAAATGAT S E T T A E G E G E T D S A S S A S N D	1200 189
1201 190	GACAATGTGTTCGATGACTTTACCAGCTACAATGCCCACAAAAAGAAGCAGGAGAGAAAA D N V F D D F T S Y N A H K K K Q E R K	1260 209
1261 210	TCTCGCTCGATTGCCGATGTACGCAATGAGGAGCAGAATATTCAAGGAAATCACACAGAG S R S I A D V R N E E Q N I Q G N H T E	1320 229
1321 230	CTTCAGGAAAAGTCATCCAATGAGGCAACTTCCAAAGAGAGCCCTGCACCACCTTCACCAC L Q E K S S N E A T S K E S P A P L H H	1380 249
1381 250	CGTCGCAGAATGCATTCCCGCCATCGCCACCTCCTAGTCCGCAAAGCCAGATCCGAGGAC R R R M H S R H R H L L V R K A R S E D	1440 269
1441 270	TCGAGGCCAGCAGCCCATTTCCACTTGAGCAGCAGGCGGCGTCACCAAGGAAGTATGGGC S R P A A H F H L S S R R R H Q G S M G	1500 289
1501 290	TACCATGGAGATATGTACATAGGAAATGATAACGAGAGAAACTCTTATCAGGGACACTTT Y H G D M Y I G N D N E R N S Y Q G H F	1560 309
1561 310	CAAACGCGCGATGGCGTCTTGACGGTGACCAATACAGGCCTATATTACGTATACGCCCAG Q T R D G V	1620 329
1621 330	ATATGCTACAACAACTCGCACGACCAGAACGGATTTATCGTCTTTCAAGGAGACACTCCA	1680 349
1681 350	TTCCTGCAGTGCTTGAACACGGTGCCCACCAACATGCCACATAAGGTGCACACTGCCACF L Q C L N T V P T N M P H K V H T C H	1740 369
1741 370	ACGAGTGGTCTGATCCACCTGGAACGAAACGAGAGGATCCATCTGAAGGACATTCACAAC T S G L I H L E R N E R I H L K D I H N	1800 389
1801 390	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1860 4 09
1861	${\tt TAAATTGGAGAGATTATCCCCGGTCAGAAGATGGAATACCAGTTTAAGCTTTTGTCCCCG}$	1920

Figure 3C

1921	CGACTGCTCGTGAATGCGATTCATCGCCAGCGTGAATCCATTAGTTCGTAGTACCTAGTC	1980
1981	$. \\$ $ TTAGTCACTCCAAACCTAATCTCAATCGGAATCGTGCATACTGCATTAGTCAGAAGACGG$	2040
2041	AGGAAAATCATATTTATTTTGTATATACTCGTTCGACTCTAAAAAGTGAATAAAAATATA	2100
2101		

Figure 4



AC005974 : DS05033 (P1 D347), DS01913 (P1 D350). Finished; 158983 bases. Length = 158,983

Minus Strand HSPs:

Score = 77 (27.1 bits), Expect = 5.5, P = 1.0Identities = 20/58 (34%), Positives = 31/58 (53%), Frame = -1

Query: 203 NORLINDODEFYLYANICERH-RETSGÜLA----PEYLQLMYVY-RYGIKIFESSHT 254 $^{\circ}$ LV G VY-YA IC+ H+ 40 + $^{\circ}$ T+Q + V T K++ HF SD-JC+: 129394 DGVLTVINTGLYXYAQICXINSHDQNGFIVFQGDTFFLQCLNTVPINNFHKVHTCHT 129221

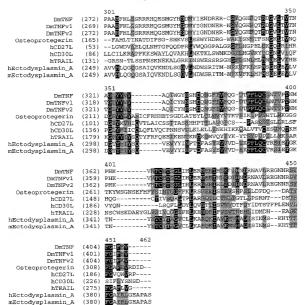
Score = 45 (15.8 bits), Expect = 79., Sum P(2) = 1.0 Identities = 9/17 (52%), Positives = 10/17 (58%), Frame = -1

Query: 28 GPLHAPP--PPAPHQPP 42 GP PP PP+P PP Sbjct: 132361 GPSLPPFFPPPSPRTPP 132311

Figure 6A

		1 50
	103	1 50MTAETLEPF TPT SANDOFFPEKETSTETAQR
DmTNF	(1)	MTAETLEPFITPTSANDOFPAKATSTYTQR
DmTNFv1 DmTNFv2	(1)	MTAETLKPFITPTSANIDEFPAKATSTPTOR
Osteoprotegerin hCD27L	(1)	
hCD30L	(1)	
hTRAIL	(1)	MAMMENOGGP
hEctodysplasmin_A	(1)	
mEctodysplasmin_A	(1)	MGYPEVERREP PAAR PRERESOGCECRGAPARA
MECCOGYSPIESMIN_A	(1)	TOTT DADY STATES AND ASSOCIATION OF THE PARTY OF THE PART
		51 100
DmTNF	(33)	rtrolipivigrisigivvatiaitivottroshldkelks <mark>lor</mark> vv
DmTNFv1	(33)	RTRELIPHVIGEIENGVVALHANTINOTTENSHLDKELKSEREVV
DmTNFv2	(33)	rtrolip evice igiczvaliaitiwottroshldkelksikrvv
Osteoprotegerin	(39)	HOPPAASESMEVALLGLE GOVVCSVALFFYFRAOMDPNRISE
hCD27L	(1)	
hCD30L	(1)	
hTRAIL	(11)	SLGOTCVEINIBTVELQSECNAVTYVNFTNEEKOMQ
hEctodysplasmin_A	(35)	GEGNSCLEFTEFFEISTALHTECCYLELESEFRER
mEctodysplasmin_A	(35)	gegnscriftgffgistalhidtlccyleleseffrer
		101150
DmTNF	(79)	DNLQQRLGINYLDEFDEFQKEYENALIDYPKKVDCLTDHEDDDDGDCLDS
DmTNFv1	(79)	DNLQQRLCINYLDEFDEFQKEYENAL IDYPKKVDCLTDEEDDDDGDGLDS
DmTNFv2	(79)	DNLQQRLGINYLDEFDEFQKEYENALIDYPKKVDCLTDEEDDDDGDGLDS
Osteoprotegerin	(82)	
hCD27L	(1)	
hCD30L	(1)	
hTRAIL	(47)	KYSKSG
hEctodysplasmin_A	(73)	AESRLGESGTPGTSGTLSSLGGLDPDSPITSHLEQPSPKQQPLEPGEAA
mEctodysplasmin_A	(73)	TESRLG PGAPGTSGTLSSPGSLDP GPITHHL QPSFQQQPLEP EDP
		200
	(120)	151 200
DmTNF	(129)	TADDED DVSYSSUDDVGADYED TOMLNULNNAHUGTTPTSETTMESEG
DmTNFv1	(129)	TADDEDD DYSYSSYDDYGAD YEDYTDMLNYLNNAHTGTTPTSETTASEEG TADDEDD DYSYSSYDDYGAD YEDYTDMLNYLNNAHTGTTPTSETTASEEG
DmTNFv1 DmTNFv2	(129) (129)	TAD BED DVSYSSUDDYGAD YED TIDMLATILAND HIGTTPT SETT NEED TAD BED DVSYSSUDDYGAD YED TIDMLATILAND HIGTTPT SETT NEED TAD BED DVSYSSUDDYGAD YED TIDMLATILAND HIGTTPT SETT NEED TAD BED DVSYSSUDDYGAD YED THOM LAND LAND HIGTTPT SETT NEED BED
DmTNFv1 DmTNFv2 Osteoprotegerin	(129) (129) (110)	TAD BED DVSYSSUDDVGATYED TIDMLK LINK HIGTTPI GETTAL SEG TAD BED DVSYSSUDDVGATYED TIDMLKLINK HIGTTPI SETTAL SEG HAD BED DVSYSSUDDVGATYED TIDMLKLINK HIGTTPI SETTAL SEG
DMTNFv1 DMTNFv2 Osteoprotegerin hCD27L	(129) (129) (110) (1)	HADE SELDOWSYSSUDDWGARYED WINGLAMELAN RHOOTEPISSTING EGG TAD SED DWSYSSUDDWGARYED WINGLAN LAN RHOOTEPISSTING EGG TAD SED DWSYSSYDDWGARYED SEMMLAN LAN RHOOTEPISSTING EGG HLIPDSCRIKQAFQGARGELQHIVGSOHIKAE
DmTNFv1 DmTNFv2 Osteoprotegerin hCD27L hCD30L	(129) (129) (110) (1) (1)	TADE SDE DVSYESUDDVGALYED TIBMLNELINEH OTTPISSTTES EG -KLIPDSCRIKAPGGALGELQHIVGSCHIRAE
DmTNFv1 DmTNFv2 Osteoprotegerin hCD27L hCD30L hTRAIL	(129) (129) (110) (1) (1) (73)	HADE DE DOWSYSSUDDUGALYED WINDLAW LAN RIGHTPUSSTURSED TABLED DVSYSSUDDUGALYED WINDLAW LAN RIGHTPUSSTURSED TABLED DVSYSSUDDUGALYED WINDLAW LAN RIGHTSTURSED HELP DSCHRIKGAF GAG GERICH VOSSULTRAB HEES GERGEN GERGEVELAR LEVEL HEES GERGEVELAR LEVEL HEES GERGEVELAR LEVEL HEES GERGEVELAR LEVEL
DmTNFv1 DmTNFv2 Osteoprotegerin hCD27L hCD30L hTRAIL hEctodysplasmin_A	(129) (129) (110) (1) (1) (73) (123)	TADE DD DVSYSSIDDVGATYED WEMLNELNERWIGTTPTSSTTTESEG TADE DD DVSYSSIDDVGATYED STMLNALINARWIGTTPTSSTTTESEG TADE DD DVSYSSIDDVGATYED STMLNALINARWIGTTPTSSTTTESEG
DmTNFv1 DmTNFv2 Osteoprotegerin hCD27L hCD30L hTRAIL	(129) (129) (110) (1) (1) (73)	RAD SDD OVSYSSUDDUGALYED WINLAMELIN RHOTTPUSSTTUS SEG TAD SDD OVSYSSUDDUGALYED WINLAMELIN RHOTTPUSSTTUS SEG TAD SDD OVSYSSUDDUGALYED WINLAMELIN RHOTTPUSSTUS SEG TAD SDD OVSYSSUDDUGALYED WINLAMELIN RELIGIOUS SEGURIA
DmTNFv1 DmTNFv2 Osteoprotegerin hCD27L hCD30L hTRAIL hEctodysplasmin_A	(129) (129) (110) (1) (1) (73) (123) (123)	HAD SDE OVSYSSDD OVGALYEL WINDLAMELAN RIGHTPUSSTING SEG TAD SDE OVSYSSDD OVGALYEL WINDLAMELAN RIGHTPUSSTING SEG HAD SDE OVSYSSDD OVGALYEL WINDLAMELAN RIGHTPUSSTING SEG
DmTNFv1 DmTNFv2 Osteoprotegerin hCD27L hCD30L hTRAIL hEctodysplasmin_A	(129) (129) (110) (1) (1) (73) (123) (123)	EARL SCHOWSYSSUDDUGALYER WINDLAMELIN HIGHTPISSTITES ES ALD SCHOWSYSSUDDUGALYER WINDLAMELIN HIGHTPISSTITES ES ALD SCHOWSYSSUDDUGALYER WINDLAMELIN HIGHTPISSTITES ES ALD SCHOWSYSSUDDUGALYER WINDLAMELIN HIGHTPISSTITES ES ALL PROCERTING POOL OF SCHOWLING HIGH SCHOWLING HIGHTPISSTITES ES ALL PROCERTING POOL OF SCHOWLING HIGH
DmTNFv1 DmTNFv2 Osteoprotegerin hcD27L hCD30L hTRAIL hEctodysplasmin_A mEctodysplasmin_A	(129) (129) (110) (1) (1) (73) (123) (123) (123)	EAD SDEOWSYSSUDDUGALYELY WOLLNELD REGISTED SETTING SEG AAD SDEOWSYSSUDDUGALYELY WOLLNELD REGISTED SEG AAD SDEOWSYSSUDDUGALYELD WOLLNELD REGISTED SEG AAD SDEOWSYSSUDDUGALYELD WOLLNELD REGISTED SETTING SEG AAD SDEOWSYSSUDDUGALYELD WOLLNELD REGISTED SEG AMERICAN SEG
DmTNFv1 DmTNFv2 Osteoprotegerin hCD27L hCD30L hTRAIL hEctodysplasmin_A mEctodysplasmin_A	(129) (129) (110) (1) (1) (73) (123) (123) (179) (179)	EAD ED OVSYSSUDDYGALYED WIDDLINELIN HIGHTPISSTIESE GE ADD ED DVSYSSUDDYGALYED WIDDLINELIN HIGHTPISSTIESE GE ADD ED DVSYSSUDDYGALYED WIDDLINELIN HIGHTPISSTIESE GE ADD ED DVSYSSUDDYGALYED WIDDLIN HIGHTPISSTIESE GE
DmTNFv1 DmTNFv2 Osteoprotegerin hCD27L hCD30L hTRAIL hEctodysplasmin_A mEctodysplasmin_A DmTNF DmTNFv1	(129) (129) (110) (1) (1) (73) (123) (123) (179) (179)	EAD ED OVSYSSUDDYGALYED WIDDLINELIN HIGHTPISSTIESE GE ADD ED DVSYSSUDDYGALYED WIDDLINELIN HIGHTPISSTIESE GE ADD ED DVSYSSUDDYGALYED WIDDLINELIN HIGHTPISSTIESE GE ADD ED DVSYSSUDDYGALYED WIDDLIN HIGHTPISSTIESE GE
DmTNPV1 DmTNPV2 Osteoprotegerin hCD37L hCD37L hEctodysplasmin_A mEctodysplasmin_A DmTNF DmTNFV1 DmTNFV1	(129) (129) (110) (1) (13) (123) (123) (123) (179) (179) (179) (179) (144) (27)	EAL BOD OVSYSSUDDUGALYED WINDLINELIN HIGHTPISSTIESE GE ALDED DVSYSSUDDUGALYED WINDLINELIN HIGHTPISSTIESE GE ALDED DVSYSSUDDUGALYED WINDLINELIN HIGHTPISSTIESE GE ALDED DVSYSSUDDUGALYED WINDLINELIN HIGHTPISSTIESE GE
DmTNPv1 DmTNPv2 Osteoprotegerin hcD27L hcD30L hTRAIL hEctodysplasmin_A mEctodysplasmin_A mEmTNPv1 DmTNFv1 DmTNFv2 Osteoprotegerin	(129) (129) (110) (1) (1) (73) (123) (123) (179) (179) (179) (144) (27) (30)	HAD SED OVSYSSUDDYGALYEL WINDLINELINE HIGHTPUSSTT SEED ALAD SED OVSYSSUDDYGALYEL WINDLINELINE HIGHTPUSSTT SEED ALAD SED DVSYSSUDDYGALYEL WINDLINELINE HIGHTPUSSTT SEED ALAD SED DVSYSSUDDYGALYEL WINDLINELINE HIGHTPUSST MASSES FLIPPSC SERVEN SEED SEED SEED SEED SEED SEED SEED SE
DmTNPV1 DmTNPV2 Osteoprotequerin hCD27L hCD30L hTRAIL hEctodysplasmin_A mEctodysplasmin_A DmTNPV1 DmTNPV2 Osteoprotegerin hCD37L hCD30L hTRAIL	(129) (129) (110) (1) (1) (73) (123) (123) (179) (179) (179) (179) (144) (27) (30) (105)	EARL SCHOWSYSSUDDUGALYER WINDLINELIN HIGHTPISSTITES ES TARD SCHOWSYSSUDDUGALYER WINDLINELIN HIGHTPISSTITES ES TARD SCHOWSYSSUDDUGALYER WINDLINELIN HIGHTPISSTITES ES HELPECKRIKAPEN HIGHTPISSTITES ES HIGHTPISSTI
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DmTNPv1 DmTNPv2 Osteoprotegerin hCD27L hCD30L hTRAIL hEctodysplasmin_A mEctodysplasmin_A mErtodysplasmin_A DmTNF DmTNFv2 Osteoprotegerin hCD27L hCD30L hTRAIL	(129) (129) (110) (11) (13) (123) (123) (123) (179) (179) (179) (144) (27) (30) (105) (171)	EARL SCHOWSYSSUDDYGALYEL WINDLINELIN SHIGHTPUSCTITES ESC ALAD SCHOWSYSSUDDYGALYEL WINDLINELIN SHIGHTPUSCTITES ESC ALAD SCHOWSSUDDYGALYEL WINDLINELIN SHIGHTPUSCTITES ESC ALAD SCHOWS STATEMENT SHIP SHIP SHIP SHIP SHIP SHIP SHIP SHIP
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DmTNPv1 DmTNPv2 Osteoprotegerin hCD27L hCD30L hTRAIL hEctodysplasmin_A mEctodysplasmin_N mTNPv1 DmTNPv1 DmTNPv2 Osteoprotegerin hCD27L hCD30L hTRAIL hEctodysplasmin_A mEctodysplasmin_A	(129) (129) (110) (1) (1) (1) (13) (123) (123) (179) (179) (179) (144) (27) (30) (105) (171) (171)	EAD EDDOVSYSSUDDUGALYEL WINDLINELIN RIGHTPUSTTINGS EG ALD EDDOVSYSSUDDUGALYEL WINDLINELIN RIGHTPUSTTINGS EG ALD EDD DVSYSSUDDUGALYEL WINDLINELIN RIGHTPUSTTINGS EG ALD EDD DVSYSSUDDUGALYEL WINDLING RIGHTPUSTTINGS EG ALD EDDOVSYSSUDDUGALYEL WINDLING RIGHTPUSTTINGS EG ALD EDDOVSYSSUDDUGALYEL WINDLING RIGHTPUSTTING RIGHTPUSTTI
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DmTNPV1 DmTNPV2 Osteoprotegerin hCD27L hCD30L hTRAIL hEctodysplasmin_A mEctodysplasmin_N mTNPV1 DmTNPV1 DmTNPV2 Osteoprotegerin hCD27L hCD30L hTRAIL hEctodysplasmin_A mEctodysplasmin_A mEctodysplasmin_A	(129) (129) (110) (1) (1) (1) (13) (123) (123) (179) (179) (179) (144) (27) (30) (105) (171) (171)	EARL SCHOUNSYSSUDUGALYEL WINDELMELIN RIGHTPUSTITUSE GE ALAR SCHOUNSYSSUDUGALYEL WINDELMELIN RIGHTPUSTITUSE GE ALAR SCHOUNS STORM AND WINDELMELIN RIGHTPUSTITUSE GE ALAR SCHOUNS STORM AND RESERVE AND RIGHTPUSTITUSE GE ALAR SCHOUNS STORM AND RESERVE AND RIGHTPUSTITUSE GE ALAR SCHOUNS STORM AND RESERVE AND RE
DmTNPV1 DmTNPV2 Osteoprotegerin hCD27L hCD30L hTRAIL hEctodysplasmin_A mEctodysplasmin_A DmTNFV1 DmTNFV1 hCD30L hTRAIL hEctodysplasmin_A DmTNFV1 DmTNFV1 hCD30L hTRAIL hEctodysplasmin_A mEctodysplasmin_A DmTNFV1 DmTNFV1 DmTNFV1 Osteoprotegerin DmTNFV2 Osteoprotegerin	(129) (129) (110) (1) (1) (1) (13) (123) (123) (179) (179) (179) (144) (27) (30) (105) (171) (171)	EARL SCHOUNSYSSUDUGALYEL WINDELMELIN RIGHTPUSTITUSE GE ALAR SCHOUNSYSSUDUGALYEL WINDELMELIN RIGHTPUSTITUSE GE ALAR SCHOUNS STORM AND WINDELMELIN RIGHTPUSTITUSE GE ALAR SCHOUNS STORM AND RESERVE AND RIGHTPUSTITUSE GE ALAR SCHOUNS STORM AND RESERVE AND RIGHTPUSTITUSE GE ALAR SCHOUNS STORM AND RESERVE AND RE
DmTNPv1 DmTNPv2 Osteoprotegerin hCD27L hCD30L hTRAIL hEctodysplasmin_A mEctodysplasmin_A mEctodysplasmin_A DmTNF DmTNPv2 Osteoprotegerin hCD27L hCD30L hTRAIL hEctodysplasmin_A mEctodysplasmin_A mEctodysplasmin_A DmTNFv1 DmTNFv1 DmTNFv1 DmTNFv1 DmTNFv2 Osteoprotegerin hCD27L hTRAIL	(129) (129) (110) (11) (11) (13) (123) (123) (179) (179) (179) (144) (27) (30) (171) (171) (171) (228) (228) (228) (228) (157) (41)	EARL SCHOWSYSSUDDUGALYEL WINDLINELIN SHE OTTPLS TITLES ES ALAD SCHOWSYSSUDDUGALYEL WINDLINELIN SHE OTTPLS TITLES ES ALAD SCHOWS SHE WINDLINELIN SHE OTTPLS TITLES ES ALAD SCHOWS SHE WINDLINELIN SHE OTTPLS TITLES ES ALAD SCHOWS SHE WINDLINELIN SHE OTTPLS STITLES ES ALAD SCHOWS SHE WINDLINELIN SHE WINDLINELIN SHE WINDLINELIN SHE WINDLINELIN SHE WINDLINELIN SHE WINDLINELIN SHE WINDLINE SHE WINDLING SHE WINDLINE SHE WINDLINE SHE WINDLINE SHE WINDLING SHE WINDLING SHE WINDLING SHE WINDLI
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DmTNPv1 DmTNPv2 Osteoprotegerin hCD27L hCD30L hTRAIL hEctodysplasmin_A mEctodysplasmin_B mTNF DmTNF DmTNFv2 Osteoprotegerin hCD27L hCD30L hTRAIL hEctodysplasmin_A mEctodysplasmin_A mEctodysplasmin_A DmTNF DmTNFv1 DmTNFv1 DmTNFv1 DmTNFv1 DmTNFv1 DmTNFv1 hCD30L hCD30L hCD30L	(129) (129) (129) (110) (11) (13) (123) (123) (179) (179) (179) (144) (27) (30) (105) (171) (171) (228) (228) (228) (157) (41) (71) (71) (71)	EARL SCHOWSYSSUDDUGALYEL WINDLINELIN SHEGTTPUSSTTINGS GO ALD BOD WYSSUDDUGALYEL WINDLINELIN SHEGTTPUSSTTINGS GO ALD BOD DVSYSSUDDUGALYEL WINDLINELIN SHEGTTPUSSTTINGS GO ALD BOD DVSYSSUDDUGALYEL WINDLINELIN SHEGTTPUSSTTINGS GO ALD BOD DVSYSSUDDUGALYEL WINDLINELIN SHEGTTPUSSTTINGS GO ALD BOD BOD SHEGT SHEGT SHEGT SHE SHE SHE SHEGT
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Figure 6B



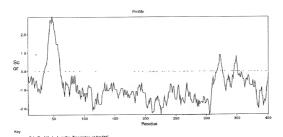
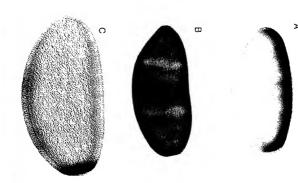
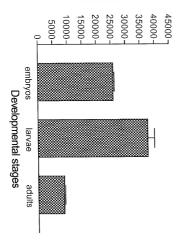


Figure 8



Expression profile of *Drosophila*TNF during development



Quantative units

DmTNF

<u>Protein</u>	Genbank ID	Identities	Similarities
human osteoprotegerin protein	gil12643360	21.4%	35.7%
human hCD27 ligand protein	gil P32970	12.5%	37.5%
human CD30 ligand protein	gil P32971	20%	26.7%
human TRAIL protein	gil P50591	24.6%	34.4%
human ectodysplasmin_A protein	gilQ92838	21.2%	27.9%
mouse ectodysplasmin_A protein	gilNP_034229	20.4%	28.5%

DmTNFv1

Protein	Genbank	<u>Identities</u>	Similarities
	<u>ID</u>		
human osteoprotegerin protein	gil12643360	23.8%	30.5%
human hCD27 ligand protein	gil P32970	12.5%	37.5%
human CD30 ligand protein	gil P32971	20%	26.7%
human TRAIL protein	gil P50591	23.3%	32.7%
human ectodysplasmin_A protein	gilQ92838	21.8%	28.6%
mouse ectodysplasmin_A protein	gilNP_034229	21%	28.6%

DmTNFv2

<u>Protein</u>	Genbank	Identities	Similarities
	ID		
human osteoprotegerin protein	gil12643360	21.4%	35.7%
human hCD27 ligand protein	gil P32970	12.5%	37.5%
human CD30 ligand protein	gil P32971	20%	26.7%
human TRAIL protein	gil P50591	24.1%	33.9%
human ectodysplasmin_A protein	gilQ92838	22.4%	29.1%
mouse ectodysplasmin. A protein	gilNP 034229	21.6%	29.2%

Figure 12



